

DeSantis (2489752 Ontario Inc.) Proposed Mixed-Use Development Functional Servicing Report

526 Bay Street Midland ON 23-6998

March 19, 2025

Submitted By:

Quantum Engineering Inc. 97 Copeland Creek Drive Tiny, ON L9M 0M2 T (705) 549-1791 F (866) 516-9827

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Record of Revisions

Revision	Date	Description
1.0	March 2025	Initial Submission to Owner/Town

Prepared By:

Reviewed By:

Katrina Lalonde, P.Eng.

David W. Lalonde, P. Eng.



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1.0 Introduction

Quantum Engineering Inc. (Quantum) has been retained by Louie DeSantis (2489752 Ontario Inc.) to provide engineering services related to the proposed mixed-use development. The proposed development is to be located at 526 Bay Street in the Town of Midland and consists of a four-storey building completed with ground floor commercial space and indoor parking as well as three upper floors containing a total of fifteen (15) residential apartment units and one (1) residential unit for the building manager.

This Functional Servicing Report (FSR) will review and summarize the impact of the proposed development on the existing applicable infrastructure. This FSR has been prepared in support of an application for Site Plan Approval from the Town of Midland for the proposed mixed-use development at 526 Bay Street and is submitted for Town approval of the proposed development on the subject property.

2.0 Project Description

The proposed development is to consist of an approximately 324 m² commercial space, approximately 621 m² interior parking area, and approximately 119 m² residential common area on the ground floor; an approximately 715 m² residential area containing six apartment units and one smaller unit for the building manager, and 135 m² of common / auxiliary area on the second floor; an approximately 666 m² residential area containing six apartment units, and 185 m² or common / auxiliary area on the third floor; and an approximately 469 m² residential area containing three apartment units, and 159 m² or common / auxiliary area on the fourth floor.

There will be two-way traffic access to the proposed development parking area from First Street. A small area near the commercial space is proposed to be an outdoor patio area and a grassed section. The remainder of the site will be sidewalk / access to the proposed building. The proposed site plan is shown on Drawing C1.

3.0 Site Description

The subject lands occupy a 0.152 ha parcel of land located between Bayshore Drive and Bay Street, on the east side of First Street in the Town of Midland. The site is currently developed as a parking lot. The site exhibits a flat topography with a total site relief of approximately 0.5m. The site location can be seen below in Figure 1.



Figure 1: Site Location

4.0 Building Height

The proposed building will have a height of approximately 16.9m. The proposed building height meets the requirement for maximum building height of 17.0m as noted in the Town of Midland Zoning By-Law for the subject property.

5.0 Design Population

The proposed mixed-use development consists of one (1) three-bedroom apartment unit, six (6) two-bedroom apartment units, eight (8) one-bedroom apartment units, and one bachelor apartment unit along with several common areas, commercial space, and an interior parking lot. A design population of two persons per sleeping room results in a design population of forty-eight (48) persons, which will be used for capacity calculations throughout this FSR.

6.0 Transportation and Traffic

There are existing roads located on three sides of the proposed development, namely Bayshore Drive, First Street and Bay Street. Access to the proposed development is proposed to be from First Street. Traffic volumes for this specific site development have not been determined; however, it is anticipated that the additional traffic from this proposed development will be minimal and not significantly increase the existing traffic volumes

currently accessing the existing parking lot from First Street and Bay Street. As such, it is expected that the existing road system will be sufficient to accommodate the proposed development.

7.0 On-Site Parking

According to the Town of Midland Zoning By-law, Section 4.1.3 and 4.1.10.1, no minimum parking spaces or loading spaces are required for all permitted uses within the Downtown Core (DC) zone.

A total of fourteen interior parking spaces have been provided along with one interior barrier free space. No loading space has been proposed on-site. This quantity of parking spaces exceeds the requirement for minimum parking spaces as noted in the Town of Midland Zoning By-Law for the subject property.

8.0 Municipal Servicing

.1 Existing Services

Services for the proposed development will require connection to the existing municipal systems located adjacent to the proposed development site. It is anticipated the municipal systems, including sanitary sewers, watermains and storm sewers have sufficient capacity to service the needs of the project.

.2 Water Service

Based on GIS data and as-built drawings of the King Street rejuvenation project, provided by the Town of Midland, it is our understanding that there is an existing 100mm diameter Ductile Iron and 150mm PVC watermain located on Bay Street. For the proposed development, we anticipate connecting into the existing water stub with a 50mm diameter water service to supply water to the proposed mixed-use building. The size of the existing water stub will need to be confirmed during construction and updated as required.

Based on our assessment of the proposed building using the Town of Midland Engineering Design Standards (April 2024), the following design criteria and assumptions have been utilized to determine the water service demands for the proposed development:

- Average Daily Design Flow of 450 L/day/capita;
- Design Population of 2.0 persons per Bedroom;
- Maximum Daily Demand Factor of 2.0;
- Peak Hourly Demand Factor of 4.5.
- Commercial Design Flow for Store of 5 L/day/ 1.0 m² floor area (as per OBC 8.2.1.3.B)

The design population for the proposed development has been estimated to be 48 persons, resulting in an average daily residential demand of 0.25 L/s; a maximum daily demand flow of 0.5 L/s; and a peak hourly demand flow of 1.125 L/s for the residential portion of the proposed development. For the commercial

development area of 324m², the average daily demand is estimated to be 0.02 L/s with a maximum daily demand flow of 0.04 L/s, and a peak hourly demand flow of 0.08 L/s. The resulting overall peak water demands for the proposed development are as follows:

- Average Daily Demand = 0.27 L/s;
- Maximum Daily Demand = 0.54 L/s; and
- Peak Hourly Demand = 1.21 L/s.

It is anticipated that a water service connection of 50mm diameter should be more than adequate to accommodate the peak hourly demand noted above. The Town of Midland is requested to confirm adequate capacity within the existing water supply system using the above-noted design criteria and flows for the subject property.

Details related to the proposed water service have been provided on Drawing C3 of Drawing Set, dated March 21, 2025.

.3 Sanitary Service

Based on GIS data and as-built drawings of the King Street rejuvenation project, provided by the Town of Midland, it is our understanding that there is an existing 375mm diameter Clay sanitary sewer pipe on Bay Street. For the proposed development, we anticipate connecting into the existing sanitary sewer pipe on Bay Street via a 150mm diameter sanitary lateral.

Based on our assessment of the proposed building using the Town of Midland Engineering Design Standards (April 2024), the following design criteria and assumptions have been utilized to determine the peak sanitary design flow for the proposed development:

- Average Daily Design Flow of 450 L/day/capita;
- Design Population of 2.0 persons per Bedroom;
- Commercial Flow Rate of 2.5 L/day/m² of Floor Area;
- Wet Weather Infiltration Rate of 0.23 L/s/ha;
- Maximum Harmon Peaking Factor of 4.0.

The design population for the proposed development has been estimated to be 48 persons, resulting in an average daily residential design flow of 0.25 L/s and a peak residential design flow of 1.0 L/s. Using the commercial development area of 324m², the commercial design flow for the property is 0.009 L/s and based on the full lot area of 1520.9m², the peak extraneous flow has been calculated to be 0.035 L/s. The resulting overall peak sanitary design flow for the proposed development has been calculated to be 1.044 L/s.

As per the Town of Midland Engineering Design Standards, a minimum sanitary service connection of 150mm diameter should be more than adequate to accommodate the peak design flow noted above. A minimum slope of 2.0% should be provided for the sanitary connection lateral to meet minimum velocity requirement of 0.6m/s.

The Town of Midland is requested to confirm adequate capacity within the existing sanitary collection and treatment system using the above-noted design criteria and flows for the subject property.

Details related to the proposed sanitary service have been provided on Drawing C3 of the Drawing Set, dated March 21, 2025.

9.0 Stormwater Management

In general surface stormwater runoff will either discharge uncontrolled from the site to the adjacent Town municipal storm sewer system, or through a proposed catch basin located on-site, which will connect into the existing Town municipal storm sewer system on Bayshore Drive through an existing 450mm diameter stormwater pipe located on-site.

Based on our assessment of the proposed development, the post-development conditions on-site results in a net reduction in the surface stormwater runoff; therefore, no stormwater management quantity control is proposed. Stormwater management quality control will be implemented using Goss traps within the required catch basins on-site and an oil-grit separator within the interior parking area.

Complete details on the stormwater management design can be found in the Stormwater Management Report, to be prepared by our office in conjunction with this FSR as part of the site plan approval application package.

10.0 Utilities

Based on preliminary consultation with applicable utility companies, the following information has been determined related to the subject property:

- A 4" steel coated natural gas main is located along Bay Street adjacent to the subject property;
- An existing Bell Canada conduit is located on Bay Street parallel to Borsa Lane and appears to terminate at the subject property; and
- The existing hydro service currently consists of several hydro poles and overhead wires travelling through the subject property. The existing hydro infrastructure will need to be removed and relocated along Bayshore Drive with a proposed new underground service along First Street to Bay Street to Borsa Lane according to Newmarket-Tay Power Distribution Ltd. A 44kV substation will also need to be provided to service the proposed development.

Therefore, it is anticipated that the applicable Enbridge Gas and Bell Canada services will be available for connection of the proposed development. An extensive amount of work will be required to relocate the existing hydro service and provide a new hydro service to the subject property. Consultation and coordination with Newmarket-Tay Power Distribution Ltd. is on-going for this property and will be finalized as part of the detailed design phase for the building.

Preliminary consultation with all the applicable above-noted utility companies will need to be updated and confirmed as part of our detailed design of the proposed development.

11.0 Conclusions

Based on our analysis completed as part of this FSR, it is our understanding that the proposed development of the proposed mixed-use development, located at 526 Bay Street in the Town of Midland, is feasible and can be accommodated by the existing surrounding infrastructure.

It is requested that the Town of Midland confirm the existing watermains, sanitary sewers, storm sewers, traffic, and treatment systems have adequate capacity to service the proposed development.

We trust this FSR meets the requirements of the Town of Midland. Should you have any questions, feel free to contact our office.

Appendix A – Drawings

C1 – Site Plan

C3 - Servicing Plan

ZONING INFORMATION: GENERAL NOTES: GARBAGE STORAGE: WATER SERVICING/HYDRANT: PARKING / LOADING: I) CONTRACTOR TO CHECK ALL DIMENSIONS, SPECIFICATIONS, I) ALL GARBAGE TO BE STORED IN DUMPSTER LOCATED IN CURRENT ZONING DESIGNATION: ETC., ON SITE AND IS RESPONSIBLE FOR REPORTING ANY I) MINIMUM COVER FOR WATER SERVICES TO BE 1.8M. I) ALL PARKING SPACES MUST CONFORM WITH MOST DOWNTOWN CORE COMMERCIAL (DC) DISCREPANCIES TO OUR OFFICE PRIOR TO CONSTRUCTION. DESIGNATED AREA. RECENT EDITIONS OF TOWN OF MIDLAND ZONING 2) WATER SERVICE PIPE SHALL BE 25MM DIA. TYPE "K" PART OF LOTS 1, 2, 3 AND 4 PROPOSED CHANGE TO ZONING: AMENDMENT FOR 6.1.3.6 CONTRACTOR TO DETERMINE & CONFIRM THE LOCATION OF COPPER TUBING AND FITTINGS INCLUDING BY-LAWS. NORTH SIDE OF CLIFTON STREET CURRENT BUILDING CLASSIFICATION: N/A EXISTING UTILITIES PRIOR TO CONSTRUCTION. ELECTROCHEMICAL CORROSION PROTECTION WHERE 2) NO MINIMUM PARKING SPACE REQUIRED FOR ALL THE SNOW STORAGE: PROPOSED BUILDING CLASSIFICATION(S): C/E 2) ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS CONNECTED TO DUCTILE IRON WATERMAINS. PERMITTED USES OF DOWNTOWN CORE ZONE (DC) AS REGISTERED PLAN 306 ARE THE COPYRIGHT PROPERTY OF QUANTUM 3) MAIN STOPS AND SADDLES SHALL BE USED ON WATER GROSS FLOOR AREA (GFA): PROPOSED 36,522 FT2 (3393 M2) PER ZONING BY-LAW, SECTION 4.1.3. I) ALL SNOW TO BE STORED ON SITE WITHIN DESIGNATED PART OF LOT A ENGINEERING. THEY ARE TO REMAIN THE PROPERTY OF SERVICE. MAIN STOP TO BE MUELLER AWWA C800. 3) NO LOADING SPACE REQUIRED FOR DC ZONE AS PER SNOW STORAGE AREAS. OUR OFFICE AND MUST BE RETURNED UPON REQUEST. SADDLE TO BE ROCKWELL 371 & 372. ZONING BY-LAW, SECTION 4.1.10.1 2) SNOW NOT TO BE PUSHED ONTO OR STORED ON NORTH SIDE OF CLIFTON STREET THESE DRAWINGS ARE NOT TO BE USED IN ANY OTHER (AS PER TOWN OF MIDLAND DOWNTOWN CORE COMMERCIAL) 4) CURB STOP TO BE LOCATED AT PROPERTY LINE AND 6) PROPOSED PARKING FOR THE APARTMENT / COMMERCIAL ADJACENT ROADS, DESIGNATED PARKING SPACES OR LOCATION WITHOUT THE WRITTEN APPROVAL FROM OUR AND PART OF LANE (Closed By By-Law 1218, Inst. R013584) SHALL BE BALL STYLE WITH COMPRESSION DEVELOPMENT IS 14 INTERIOR PARKING SPACES AND I BARRIER FREE SPACES AND PATHS OF TRAVEL. OFFICE. REPRODUCTIONS OF THESE DOCUMENTS OR CONNECTION. INTERIOR BARRIER FREE PARKING SPACE. REGISTERED PLAN 363 1520.9 M² DRAWINGS IN WHOLE OR IN PART IS FORBIDDEN WITHOUT MINIMUM LOT AREA: 5) SERVICES BOXES TO BE MUELLER AWWA C800. ALL **EXTERIOR LIGHTING:** WRITTEN PERMISSION FROM OUR OFFICE. MINIMUM LOT FRONTAGE: 0.0M 18.02м SERVICE BOXES ARE TO BE INSTALLED FLUSH WITH THE TOWN OF MIDLAND 3) ALL CONSTRUCTION & INFRASTRUCTURE SHALL CONFORM MAXIMUM LOT COVERAGE: N/A 70.5% FINISHED GRADE. COUNTY OF SIMCOE TO THE MOST RECENT EDITIONS OF ALL APPLICABLE I) ALL SECURITY LIGHTING TO BE SHIELDED SO THAT MINIMUM YARD SETBACKS: 6) A MAXIMUM OF ONE COUPLING IS ACCEPTABLE ON A I) FENCING TO BE INSTALLED AS PER ONTARIO LIGHT DOES NOT INFRINGE ON ADJACENT PROPERTIES & CODES IN EFFECT AT THE PROJECT LOCATION. ALL WORKS (A) FRONT: 7.43M 0.0M WATER SERVICE BETWEEN THE CURB STOP AND PROVINCIAL STANDARDS WITH TOP RAIL, KNUCKLED TOP WILL BE DARK SKY FRIENDLY. TO BE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE ENTERING THE BUILDING. COUPLINGS TO BE COPPER (B) REAR: 0.0M EDGE FASTENERS, KNUCKLED BOTTOM EDGE AND NO. 9 0.0M 2) EXTERIOR SCONCE LIGHTING TO BE PROVIDED AT ALL AS WELL AS TOWN OF MIDLAND SPECIFICATIONS. (c) INTERIOR SIDE: COMPRESSION COUPLINGS. GAUGE WIRE WESH. 0.0M 0.0M BUILDING ACCESSES / ENTRANCES. 4) OFFICIAL COPIES MUST BEAR AN ORIGINAL SIGNATURE AND 7) WATER METER TO BE SUPPLIED AND INSTALLED BY THE 2) CHAIN LINK FENCING TO BE 1.5M HIGH FOR (D) EXTERIOR SIDE: 0.0M 0.0M 3) EXTERIOR SCONCE LIGHTING TO BE LITHONIA TWR LED SHOW THE ENGINEERS STAMP IN RED. TOWN OF MIDLAND AT CONTRACTOR'S EXPENSE. COMMERCIAL/INDUSTRIAL PROPERTIES. MAX. BUILDING HEIGHT: 17.0M 16.9M 5) DO NOT SCALE DRAWINGS. WALL PACK LIGHTING. CATALOG NO. TWRI LED P3 40K 8) WATER SERVICE INSTALLATION AND PRESSURE TESTING PARKING: MVOLT DDBTXD M2, OR APPROVED EQUAL PARKING SPACES N/A TO BE COMPLETED IN ACCORDANCE WITH TOWN OF **SANITARY SERVICING:** BARRIER FREE N/A MIDLAND DESIGN STANDARDS. BARRIER FREE PATH OF TRAVEL: <u>DRIVEWAY:</u> LOADING N/A 9) HYDRANT SHALL MEET REQUIREMENTS OF AWWA C502. MINIMUM SLOPE OF SANITARY SERVICE TO BE 2.0%. 10) HYDRANT TO BE CANADA VALVE CENTRUY/PREMIERE I) OBC 3.8.1.3 I BARRIER FREE PATH OF TRAVEL SLOPE I) PAVED AREA TO BE A MINIMUM OF 75MM HL3A ON A 2) SANITARY SERVICE SHALL BE LOCATED AT A MINIMUM **SURFACE AREAS:** MODEL, OPENING COUNTERCLOCKWISE, MEETING AWWA LEGEND: MAXIMUM I:20; MINIMUM WIDTH I.12m (3'-8") MINIMUM OF 250MM OF GRANULAR 'A' COMPACTED TO DEPTH OF 2.0 M AT THE PROPERTY LINE, AND 2) MAXIMUM BEVEL 1:2 98% SPDD. SUFFICIENT DEPTH FOR BASEMENT FLOOR DRAINS AND TOTAL SITE AREA: 1520.9 M² II) GATE VALVES TO BE MUELLER RESILIENT SEAT VALVES, 2) DRIVEWAY CULVERT TO BE MINIMUM 400MM DIA. 3) MAXIMUM 12MM (1/2") CURB AT LEVEL CHANGES FROST COVER. BUILDING FOUNDATION FOOTPRINT: 1072.3 M² MEETING AWWA C509 C/W BIBBY VALVE BOX TO BE ALUMINIZED CORRUGATED STEEL OR DOUBLE WALLED 4) MINIMUM LANDING AT TOP AND BOTTOM OF SLOPED 3) FILL BENEATH SANITARY SERVICES IS TO BE BUILDING ROOF SURFACE: TBD INSTALLED FLUSH WITH THE FINISHED GRADE. SMOOTH INTERIOR HDPE PIPE. PORTION 1.67m (66") SQUARE COMPACTED TO 98% SPD. TOTAL PAVED/CONCRETE AREA: 325.5 M² II) CHECK VALVES TO BE MUELLER SWING CHECK VALVES, * ASPHALT & GRANULAR COURSES SHALL CONFORM TO ALL 4) SANITARY SERVICE SHALL BE PVC SDR 28 WITH RUBBER TOTAL GRASSED AREA: 123.1 M² MEETING AWWA C508 C/W BIBBY VALVE BOX TO BE APPLICABLE ONTARIO PROVINCIAL STANDARDS. GASKET TYPE JOINTS CONFORMING TO CSA B-182.2,384. **UTILITIES:** INSTALLED FLUSH WITH THE FINISHED GRADE. NOTE: DISTANCES ON THIS PLAN ARE METRIC AND CAN BE AND A MINIMUM DIAMETER OF 150 MM. 12) RESTRAINER COUPLINGS ARE REQUIRED ON ALL I) BUILDING SERVICED WITH MUNICIPAL WATER & SEWER, **GRASSED AREA:** CONVERTED TO IMPERIAL BY **MULTIPLYING BY 3.28** 5) SANITARY SERVICES ARE TO BE INSTALLED AND TESTED WATERMAIN FITTINGS. IN ACCORDANCE WITH TOWN OF MIDLAND AND ONTARIO AND 240V HYDRO. HYDRO SERVICE LOCATION AND 13) #12 TWU STRANDED COPPER TRACER WIRE TO BE I) ALL DISTURBED AREAS ARE TO BE RESTORED TO ELEVATIONS AND SERVICES ARE IN METRIC PROVINCIAL STANDARDS. INSTALLATION REQUIREMENTS TO BE CONFIRMED WITH INSTALLED ALONG SPRINGLINE OF ALL NON-METALLIC LOCAL AUTHORITY (NEWMARKET-TAY POWER ORIGINAL CONDITION AS REQUIRED. 6) ALL MATERIALS TO BE IN CONFORMANCE WITH WATERMAIN. TRACER WIRE TO BE WRAPPED AROUND DISTRIBUTION LTD.). 2) GRASSED AREAS TO BE SODDED OVER A MINIMUM I50 MM ONTARIO PROVINCIAL STANDARD SPECIFICATIONS. EACH JOINT AND BROUGHT TO THE SURFACE AT EACH 2) COMPACTION OF BACKFILL FOR UTILITY TRENCHES OF TOPSOIL. HYDRANT AND CONNECTED TO FLANGE BOLT. SHALL BE 95% SPDD, UNLESS OTHERWISE SPECIFIED BY CONTINUOUS LENGTH OF WIRE MUST BE USED. LOCAL AUTHORITIES. INSTALLATION AND CONTINUITY TESTING TO BE 3) CONTRACTOR RESPONSIBLE FOR LOCATING ALL COMPLETED AS PER TOWN OF MIDLAND STANDARDS. EXISTING UTILITIES PRIOR TO CONSTRUCTION. - PART ()-20.12(RP. 306 & Set) -1, PLAN - PROPOSED GARBAGE ENCLOSURE (TO BE CONFIRMED/COORDINATED WITH NEWMARKET-TAY POWER DISTRIBUTION LTD.) PROPOSED PATIO AREA \Leftrightarrow PROPOSED INTERIOR PARKING PROPOSED APARTMENT & COMMERCIAL AREA PART (14 SPACES + I BARRIER FREE) AREA AS PER IHD DESIGN BUILD AREA PLAN AI.4 Z DESIGNATED SNOW 95.85 (51R-25853 & Meas.) N56°56'30"E (51R-25853 & Meas. N56°56'50"E PROPOSED SIDEWALK TO BUILDING ENTRANCES 0002 (LT) AS REQUIRED FOR NEW ENTRANCE PROPOSED CURB TO BE INSTALLED By—Law 891, Inst. R09197) AS REQUIRED AS PER OPSD 600.040. REVISED WITH NEWMARKET-TAY losed By By-Law 1218, "Inst. R013584) POWER DISTRIBUTION LTD. STREET - REGISTERED PLAN SITE PLAN
SCALE: 1: 250



No. DESCRIPTION DATE

I FOR TOWN PRECONSULT DEC. 19, 2023

I FOR TOWN PRECONSULT DEC. 19, 2023
2 FOR ZONING AMENDMENT MAY I, 2024
3 FOR ZONING AMENDMENT JUNE 6, 2024
4 FOR CLIENT REVIEW MAR. 21, 2025

-x-x-x- CHAIN LINK FENCE

BUILDING ACCESS C/W EXTERIOR WALL SCONCE LIGHTING

DIRECTION OF TRAFFIC

O_{UP} UTILITY POLE

FIRE HYDRANT C/W VALVE & BOX (AS PER OPSD II05.010)

GRASSED AREA

PAVED AREA

SIDEWALK / CONCRETE ACCESS

SLOPED LANDSCAPE





FAX: (866) 516-9827
WWW.QENG.CA

APARTMENT BLDG

LOCATION 526 BAY STREET

MIDLAND, ON

FOR LOUIE DESANTIS

DRAWING SITE PLAN

DEC. 2023 PROJECT NO PROJECT NO 6998

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